

**ABSTRACT**

Includes a stem (10) with a hole (74), a dielectric (77) sealed into the hole (74) of the stem (10) and including a pair of pin insertion holes (80a, 80b), and a pair of high frequency signal pins (41a, 41b)  
5 that penetrate and fit into the pair of pin insertion holes (80a, 80b) of the dielectric (77), and constituting differential lines connected to an optical semiconductor element (LD) (40).